## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-3. (Canceled).
- 4. (Currently Amended) A device for compensating a picture quality of a projection type display comprising:
  - a screen for displaying a picture projected from outside of the screen;
- an optical detection/transmission part for detecting an environmental light of the screen, and transmitting in a form of a UV ray;
- a video processing part for receiving, and converting an analog video signal into a digital video signal, and adjusting an offset and a gain thereof, for making the video signal displayable on the screen;
- a sensing part for sensing the video signal from the video processing part and projected to a region of the screen;
  - a memory part for storing reference video information;
- a UV receiving part for receiving the UV ray signal from the optical detection /transmission part; and[[,]]

a microcomputer for projecting the reference video information stored at the memory part onto the screen through the video processing part according to a user's picture quality compensation command, or a preset algorithm, and controlling the video processing part so that a luminance and chromaticity of the picture are calculated according to an output of the sensing part, the luminance and the chromaticity of picture are compared to preset values, and a compensation is made according to a result of the comparison.

- 5. (Currently Amended) A device as claimed in claim 4, wherein the sensing part includes;
  - a focusing lens focused on a region of the screen[[,]]; and an optical sensor.
- 6. (Original) A device as claimed in claim 4, wherein the reference video information in the memory part includes black pattern video information and white pattern video information.
- 7. (Original) A device as claimed in claim 4, wherein the optical detection/transmission part is fitted to a region of the screen.

8. (Currently Amended) A device as claimed in claim 4, wherein the optical detection/transmission part includes[[;]]:

an optical sensor for detecting an environmental light of the screen; and[[,]]

a UV ray transmitter for converting the detected environment light into a form of
a UV ray, and transmitting to the UV ray receiving part.

- 9. (Currently Amended) A method for compensating a picture quality of a projection type display having a body and a screen, comprising the steps of:
- (a) the body projecting, and displaying a first reference picture on the screen, detecting a displayed picture, and calculating a chromaticity of the picture according to a user's command, or a preset algorithm;
- (b) increasing an offset value of a color signal in R/G/B color signals, which lacks chromaticity, until the offset value is within a normally allowable range if the chromaticity calculated for the first reference picture is within a correctable range, and outside of the normally allowable range;
- (c) the body projecting, and displaying a second reference picture on the screen, detecting a displayed picture, and calculating luminance and chromaticity of the displayed picture; and[[,]]
- (d) increasing a luminance output level of the second reference picture to an optimal luminance step by step to complete a luminance compensation, and decreasing a gain of

a color signal in the R/G/B color signals, which has an excessive chromaticity, until the gain is within a normally allowable range if the chromaticity calculated for the second reference picture is outside of the normally allowable range, thereby completing the compensation.

- 10. (Original) A method as claimed in claim 9, wherein the first reference picture is a black pattern, and the second reference picture is a white pattern.
- 11. (Original) A method as claimed in claim 9, wherein the first reference picture and the second reference picture are displayed along a width of a periphery of the screen, respectively.
- 12. (Original) A method as claimed in claim 9, wherein the first reference picture and the second reference picture are displayed in a part of a periphery of the screen, respectively.
- 13. (Original) A method as claimed in claim 9, further comprising the step of increasing an offset of a color signal in the R/G/B color signals, which has an excessive chromaticity, until the offset reaches to a preset correctable range if the chromaticity calculated for the first reference picture is outside of the correctable range, thereby completing the compensation.

- 14. (Original) A method as claimed in claim 9, further comprising the step of putting the luminance output level back to a value before the luminance output level is increased in a case there is no actual luminance increase following the increase of the luminance output level for the second reference picture.
- 15. (Original) A method as claimed in claim 9, further comprising the step of decreasing a gain of a color signal in the R/G/B color signals, which has an excessive chromaticity, until the gain reaches to a preset correctable range if the chromaticity calculated for the second reference picture is outside of the correctable range, thereby completing the compensation.
- 16. (Original) A method as claimed in claim 9, wherein the first reference picture is a minimum value of a digital data value, and the second reference picture is a maximum value of the digital data value.
- 17. (Currently Amended) A method for compensating a picture quality of a projection type display having a body, a screen, and an optical detection/transmission means for detecting an environmental light of the screen and transmitting to the body, comprising the steps of:

- (a) the body projecting, and displaying a first reference picture on the screen, detecting a displayed picture, and calculating a chromaticity of the picture according to a variation of the environmental light of the screen;
- (b) increasing an offset value of a color signal in R/G/B color signals, which lacks chromaticity, until the offset value is within a normally allowable range if the chromaticity calculated for the first reference picture is within a correctable range, and outside of the normally allowable range;
- (c) the body projecting, and displaying a second reference picture on the screen, detecting a displayed picture, and calculating luminance and chromaticity of the displayed picture; and[[,]]
- (d) increasing a luminance output level of the second reference picture to an optimal luminance step by step to complete a luminance compensation, and decreasing a gain of a color signal in the R/G/B color signals, which has an excessive chromaticity, until the gain is within a normally allowable range if the chromaticity calculated for the second reference picture is outside of the normally allowable range, thereby completing the compensation.
- 18. (Original) A method as claimed in claim 17, wherein the first reference picture is a black pattern, and the second reference picture is a white pattern.

19. (New) A system for adjusting parameters of an image produced by a projection display, comprising:

a screen;

an optical detector for detecting ambient light at the screen and transmitting a signal indicative of a magnitude of the detected ambient light;

a receiver for receiving the signal transmitted by the optical detector;

a video processor for receiving a video signal and projecting an image based on the video signal onto the screen;

a sensor for monitoring at least a portion of the image on the screen; and a processor for receiving monitoring information from the sensor and adjusting parameters of the projected image via the video processor based on the monitoring information.

- 20. (New) The system of claim 19, wherein the signal transmitted by the optical detector comprises a UV signal.
  - 21. (New) The system of claim 20, wherein the receiver comprises a UV receiver.
- 22. (New) The system of claim 19, wherein the sensor is positioned away from the screen.

- 23. (New) The system of claim 19, wherein the sensor comprises: an optical sensor; and
  - a lens for imaging at least a portion of the screen onto the optical sensor.
- 24. (New) The system of claim 29, wherein the parameters of the projected image comprise luminance and chromaticity.
- 25. (New) The system of claim 19, further comprising a memory for storing reference video information.
- 26. (New) The system of claim 19, wherein the video processor is adapted to project a reference image based on the reference video information onto at least a portion of the screen, and the sensor is adapted to remotely monitor the reference image.
- 27. (New) The system of claim 19, wherein the processor is adapted to compare parameters of the monitored image with predetermined parameters.
- 28. (New) The system of claim 19, wherein the optical detector is positioned on the screen.

29. (New) A method of adjusting parameters of an image produced by a projection display, comprising:

projecting a first reference image onto a screen;

determining a chromaticity of the projected first reference image;

determining a color signal whose chromaticity is different than a desired value;

adjusting, if the determined chromaticity of the projected first reference image is within a correctable range and outside a predetermined normal range, an offset value of the

projecting a second reference image onto the screen;

determined color signal until the offset value is within a predetermined normal range;

calculating a luminance and chromaticity of the projected second reference image;

adjusting a luminance level of the projected second reference image to a

predetermined optimal luminance value; and

adjusting, if the chromaticity of the projected second reference image is outside a predetermined normal range, a gain of a color signal until the gain of the color signal is within a predetermined normal range.

30. (New) The method of claim 29, wherein the first and second reference images are projected onto a peripheral portion of the screen.